

**Board Report**

File #: 2017-0835, **File Type:** Contract**Agenda Number:** 23.

**SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE
APRIL 12, 2018****SUBJECT: RIGGING SERVICES FOR METRO RED LINE AND
PURPLE LINE STATIONS****ACTION: AWARD CONTRACT****RECOMMENDATION**

AUTHORIZE the Chief Executive Officer to award a firm fixed unit rate Contract No. OP97901000-48045 for rigging services at the Metro Red Line and Purple Line stations to United Riggers & Erectors, Inc. for the five-year period covering May 1, 2018 through May 1, 2023, for an amount not-to-exceed \$2,893,200.

ISSUE

Large power transformers, emergency ventilation fan motors, uninterruptible power supply (UPS) and battery banks eventually fail due to aging and fatigue caused by mechanical and electrical stresses. These equipment/components must be replaced if a failure occurs or if preventive maintenance determines that they will fail. The physical attributes, including weight and size, of this equipment and the design of the station/location where they are installed or utilized requires the use of professional rigging services so they can be replaced in the event of equipment failure.

DISCUSSION

The current contract for rigging services for Metro's Red and Purple Line stations is set to expire in April 2018. The Metro Red and Purple heavy rail lines serve a total of 16 passenger stations and two underground power facilities. These Metro facilities are powered by large power transformers weighing up to 44,000 pounds each. Ventilation for the tunnels connecting passenger stations is provided by large emergency ventilation fans weighing up to 2,000 pounds. Each passenger station also requires ventilation and this is accomplished by utilizing large air handling units.

Emergency backup power for passenger stations is provided by large industrial UPS in accordance with Metro's Fire and Life Safety Program and Supervisory Control and Data Acquisition (SCADA) system. These UPS utilizes large banks of industrial type batteries that weigh up to 40,000 pounds.

Power transformers, large motor fans, and battery banks eventually fail due to age and fatigue caused by mechanical and electrical stresses. Therefore, equipment must be replaced as soon as

failures occur in order to maintain a safe and reliable rail passenger service. Replacement of this heavy equipment requires the use of a professional rigging contractor to safely remove defective equipment, install new equipment and undertake small engineering tasks to address installation issues that may be encountered at each work site.

Rigging is complex and can involve engineering, a crane, rigging and traffic control. Rigging will include a technical analysis of the scope of work for each task at each site. From the technical analysis, a safe method or work plan is developed to move, lift and hoist the equipment. Each work site requires a unique work plan and method. The work plan and method of execution determines the resources required, such as size of crane, a list of tools to be used, and the labor skills and crafts required. Often times, engineering modifications are required to adjust equipment to fit in the designed configuration.

DETERMINATION OF SAFETY IMPACT

Approval of the recommendation will have a positive impact on safety. As power transformers, large motor fans and battery banks approach failure due to aging and fatigue, this equipment shall be replaced to provide reliable and uninterrupted rail service to patrons, employees and the public. This Contract will ensure compliance with Rail System Fire and Life Safety guidelines of Metro and the California Public Utilities Commission (CPUC).

FINANCIAL IMPACT

The total five year contract amount is \$2,893,200. Funding of \$100,000 for the current fiscal year is included in the FY18 budget in cost center 3960, Traction Power under project 205106, MRL UPS/Battery Replacement. Since this is a multi-year contract, Senior Executive Officer, Rail Maintenance and Engineering and cost center manager will be budgeting the cost in future years.

Impact to Budget

The source of funds for this action will come from Proposition C40 and other funding sources that are eligible for Rail Capital Projects. Use of these funding sources will maximize allowable funding allocations given approved funding provisions.

ALTERNATIVES CONSIDERED

The Board may decline to approve the contract award. This alternative is not recommended because Metro does not have internal staff resources to provide rigging services. Furthermore, since these equipment support critical passenger station functions, their dysfunctions may limit Metro's ability to execute emergency procedures should an incident occurs. The failure of the equipment can impact the quality of rail service and expose Metro, its patrons, employees and the public to a greater safety risk.

NEXT STEPS

Upon Board approval, staff will execute Contract No. OP97901000-48045, with United Riggers & Erectors, Inc., to provide rigging services.

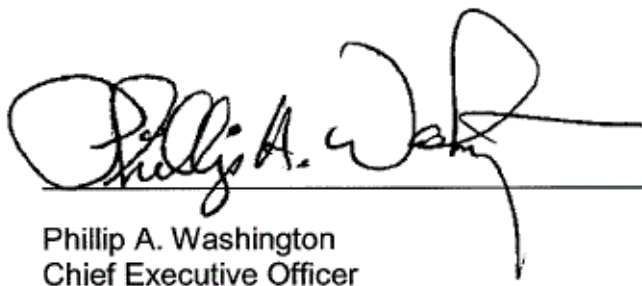
ATTACHMENTS

Attachment A - Procurement Summary

Attachment B - DEOD Summary

Prepared by: Winston Dixon, Manager, Wayside Systems (213) 922-3323
Remi Omotayo, DEO, Wayside Systems Engineering & Maintenance (213) 922-3243
Errol Taylor, Sr. EO, Rail Maintenance & Engineering (213) 922-3227

Reviewed by: Debra Avila, Chief Vendor/Contract Management Officer (213) 418-3051
James T. Gallagher, Chief Operations Officer (213) 418-3108



Phillip A. Washington
Chief Executive Officer